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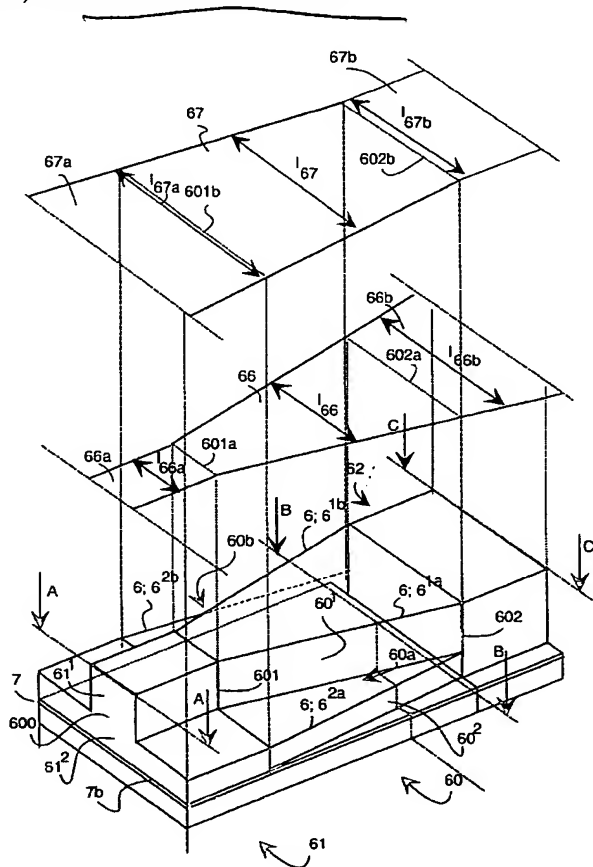
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(54) Title: OPTICAL WAVEGUIDE



(57) Abstract: The invention relates to an optical waveguide, which is part of an integrated optical circuit. The optical waveguide is arranged onto a planar support, and it has a core section conveying light to a certain direction, the direction of propagation. According to the invention, the optical waveguide is a modified optical waveguide (60) between a ridge-type optical waveguide (61) and a rectangular optical waveguide (62). In the modified optical waveguide, the core section is made of the one and same material so that the cross-section of the core section transverse to the direction of propagation of light is two-step (6; 6^{1a}, 6^{2a}; 6^{1b}, 6^{2b}) from both edges (60a, 60b). The modified optical waveguide has two layers (60¹, 60²) of different widths (l_{60a}, l_{60b}) so that the height (h_{60a}) of the first layer (60¹) is equal to the height of the ridge (61¹) of the ridge-type optical waveguide (61), and the height (h_{60b}) of the second layer (60²) is equal to the height of the base part (61²) of the ridge-type optical waveguide (61), and in which the sum of the heights (h_{60a}, h_{60b}) of the layers (60¹, 60²) is equal to the height of the rectangular optical waveguide (62), and the widths of the two layers (60¹, 60²) are arranged to change uniformly between the optical waveguides to be connected for fitting them together in the lateral direction. The invention also relates to a method for manufacturing an optical waveguide onto a support.

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